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THE EFFECTIVENESS OF THE PUBLIC SERVICES CO-PRODUCTION PROCESS – RESULTS OF A SYSTEMATIC LITERATURE REVIEW

Abstract. Nowadays co-production is seen as a valuable route to public service reform and to the planning and delivery of effective public services, which is gaining increasing attention. Despite this our understanding of co-production is limited and we still have a lot to learn about how and why coproduction works (and does not). Therefore there is a need to improve knowledge and ability to use co-production successfully. One of the unclear issues are the conditions under which co-production will most likely be effective and how important is trust in this context. This research gap was accepted as a research problem in the article. The main goal was to find answers to two research questions. First, what factors influence the effectiveness of the co-production of public services process? Second, what is the place and role of trust among the factors conditioning the effectiveness of the co-production process? The research was carried out using the systematic literature review and then the word cloud technique as a visualization of word frequency in a given text. As a result of the study, six key conditions for the effectiveness of the service co-production process were identified. One of them is trust, which also affects other factors, however, this is not the most important condition of effectiveness among those indicated in the literature.

Key words: public management, governance, public services, co-production of public services, effectiveness, trust.

Introduction

Nowadays the steadily growing importance of services is one of the most important trends, including the public sector (Wofl, 2005; Cali et al., 2008; Van de Walle & Scott, 2009; Przywojska, 2014; Denhardt & Denhard 2015). Currently observed social, political, economic and

demographic changes force public organizations to search for the new ways of providing public services (Keating, 2001; Kożuch, 2004; Pollitt & Bouckaert, 2004; Mandl et al., 2008; Mihaiu et al., 2010; OECD, 2011; Calabro, 2012; Osborne et al., 2016; Lewis & Fall, 2017; Frączkiewicz-Wronka & Kozak, 2018). Hence, methods of action suspending the effectiveness of providing public services are sought in order to address the citizens needs and satisfy their growing expectations. More and more often the solution is seen in deep engagement of both service providers and service users (which is fundamental for co-production), public services can be managed more effectively and efficiently and meet users' needs in a better way (Bovaird, 2007; Mangai & De Vries, 2018; Holmes, 2011; Stewart, 2009). Consequently one of the proposed solutions is striving to create an institutional environment fostering the co-production of public services.

The idea of co-production has been known since the 1970s. The precursors of defining the concept were American political scientists and economists Vincent and Elinor Ostrom. The main thesis they formulated in the book *Public goods and public choices*. In *Alternatives for delivering public services: Toward improved performance* (Ostrom & Ostrom, 1977) was that the collaboration between those who supply a service and those who use a service is essential if most public services are to yield the desired results.

Nowadays co-production is seen as a valuable route to public service reform and to the planning and delivery of effective public services, a response

to the democratic deficit, a route to active citizenship and active communities, and as a means by which to lever in additional resources to public services delivery (Osborne et al., 2016). Co-production as a new way of thinking about public services has the potential to deliver a major shift in the way of providing services, in ways that make them much more effective, more efficient, and more sustainable (Boyle & Harris, 2009).

There is no single definition of co-production. Co-production is defined, among others, as the voluntary or involuntary involvement of public service users in any of the design, management, delivery and/or evaluation of public services (Osborne i in., 2016) or regular, long-term relationships between state agencies and organized groups of citizens, where both make substantial resource contributions (Bovaird, 2007) or the involvement of citizens, customers, consumers and / or social organizations in the production of public services (Alford, 2009). Research in various disciplines of science (political science, economics, sociology, management, public policies) increasingly emphasize the importance of the growing role of citizens and the third sector in providing social services. At the beginning of the 21st century, along with the spread of the model of public governance that dominated theoretical considerations over the public sector (Hausner, 2008; Osborne, 2010; Pestoff, 2012; Wilkin, 2013; Denhardt & Denhardt, 2015), and the renewed interest in the participatory role of citizens, co-production became the subject of deep theoretical analysis and popular management practice in the local environment (Alford, 2002; Joshi & Moore, 2004; Osborne & Brown, 2005; Brandsen & Pestoff, 2006; Pestoff et al., 2006; Bovaird, 2007; Mitlin, 2008; Needham, 2008; Meijer, 2012; Pestoff et al., 2012; Jakobsen 2013; Osborne i Strokosch 2013; Poochaoren & Ting, 2015; Frączkiewicz-Wronka et al., 2016; Osborne et al., 2016; Sicilia et al., 2016; Kozak, 2017). Increased interest in co-production over the last two decades has provided important insights about it, at the same time becoming important challenges for public management (Verusche i in. 2012). Co-production as a new way of thinking about public services has the potential to deliver a major shift in

the way of providing services, in ways that make them much more effective, more efficient, and more sustainable (Boyle & Harris, 2009).

J. Fledderus (2015) argue that one of the most important contemporary researchers in the phenomenon of co-production, not co-production as such, but the way in which co-production is organized and managed determines its effectiveness. Effectiveness refers in this context to both the effectiveness of services as a result of co-production and the effectiveness of the co-production process - the extent to which this objective is achieved.

Effectiveness is understood as a “degree to which something is successful in producing a desired result; success” (Oxford Dictionary of English). Effectiveness relates to getting the right things done (Drucker, 2006). Effectively is the action that causes the intended result (Kotarbiński, 1982). The presented praxeological approach causes that the concept of effectiveness refers only to the concept of action and the concept of effectiveness can not be attributed to things (Zieleniewski, 1978). Effectiveness should therefore be seen as a measure of the success of the action (Kondalkar, 2010). The second important feature of effectiveness is purposefulness. Effectiveness consists in the fact that the measures taken lead in the expected way (not accidentally) to the intended result (Kotarbiński, 1982). The measure of effectiveness is the degree of approach to the goal – the cost is not taken into account (Griffin, 2013). Effective action is therefore the best way to achieve the expected results (Bukłaha, 2012).

Referring the concept of effectiveness to co-production, co-production will be effective if it will be a deliberate and practical action. Effective co-production will succeed in bringing the desired results such as creating the public/social value and increasing the quantity, quality and effectiveness of public services (Alford, 2009; Bovaird, 2007; Brandsen & Pestoff, 2006; Brown & Osborne, 2013; Calabro, 2012; Cepiku & Giordano, 2014; Glynos & Speed, 2012; Jakobsen, 2013; Marschall, 2006; Mitlin, 2008; Moore, 1995; Osborne et al., 2016; Ostrom, 1996; Pestoff, 2011; Radnor et al., 2014; Sorensen & Trofing, 2011; Tuurnas, 2015;). However, as noted by J. Fledderus (2015), one of

the most important contemporary researchers of the phenomenon of co-production, not co-production as such, but the way in which co-production is organized and managed determines its effectiveness. This last statement directs research attention to those aspects that are related to public management, in particular ways to support co-production by local government. Therefore, effectiveness in relation to co-production appears in two contexts: as its goal and as a condition for its achievement.

Similarly, a two-dimensional problem in the context of co-production is trust, which is indicated both as a condition and effect for the successfully co-production. Trust is an input in building the relationships as part of the service co-production process in the sense that it is one of the basic resources of each relationship. No ongoing relationship can survive without it. It is the output in the sense that effective, joint action in the co-production relationship strengthens and develops trust between the involved parties – successful cooperation produces a deeper and more successful relationship (Osborne et al., 2010).

Trust is defined as “a bet about the future, uncertain actions of other people” (Sztompka, 2007, 310). It is not only a hope, but also an action based on this bet, making a decision that is risky. Trust, taking into account a number of exceptions and reservations, generally has beneficial effects on social relations (Sztompka, 2007). These relations apply to all areas of social life, and the problem of trust in cooperation is gaining growing interest from both practitioners and theoreticians. Many researchers emphasize that trust is an indispensable condition for effective cooperation, whether between individuals or organizations, also in the public sector (Latusek, 2008; McQuaid 2010; Osborne et al., 2010; Latusek & Cook, 2012; Czernek 2012; Kozuch i Sienkiewicz-Małyjurek 2016; Sześciło 2015), also in relation to the co-production of public services (Yang, 2006; Pestoff, 2011; Osborne & Strokosch, 2013; Fledderus et al., 2014; Fledderus, 2015). Trust favors cooperation and strengthens it, and also affects its course and effects (Czernek, 2012) because his presence facilitates social interaction and provides the basis

for risk taking (Latusek-Jurczak & Prystupa-Rządca, 2014).

The category of trust is a key factor in satisfying public needs effectively, which is also one of the main goals of implementing a co-production of public service model (Kozuch & Sienkiewicz-Mayjurek, 2016). Therefore trust should be as important to the effectiveness of the co-production process of social services. However, while many co-production researchers pointed out that the effectiveness and efficiency of public services is the goal and effect of co-production, the issue of the effectiveness of the service co-production process is much less frequently discussed and less explored.

It is not clear, as T. Brandsen and V. Pestoff (2006) argued, under which conditions co-production will most likely be effective and how important is trust in this context. This research gap was accepted as a research problem in the article. Based on the results of the systematic review of literature and using the world cloud technique, the aim of the article is to find the answer to two questions. First, what factors influence the effectiveness of the co-production of public (including social) services process? Second, what is the place and role of trust among the factors conditioning the effectiveness of the co-production process?

Effectiveness of public services co-production – the state of art

The issues of effectiveness and trust in the context of co-production of public services are multidimensional and interrelated. In terms of effectiveness, co-production has the potential to increase the quantity, quality and effectiveness of public services. This is determined, however, not by the mere fact of using co-production as a model for designing, providing and/or evaluating services, but by the way in which co-production is organized and managed. Thus, we can talk both about the effectiveness of services as a result of co-production and about the effectiveness of the co-production process - the extent to which the goal of effectiveness is achieved. Many researchers draw attention to improving the efficiency and effectiveness of public services as the goal and

effect of co-production, including E. Ostrom (1996), T. Brandsen and V. Pestoff (2006), D. Mitlin (2008), J. Alford (2009), E. Sorensen and J. Trofing (2011), A. Calabro (2012), J. Glynos and E. Speed (2012), L. Brown and S.P. Osborne (2013), D. Cepiku and F. Giordano (2014), Z. Radnor et al. (2014), S. Tuurnas (2015). The literature analysis carried out so far by the author shows that the problem of the effectiveness of the service co-production process is much less frequently discussed and less explored (cf. Pestoff & Brandsen, 2009).

The current research in this area, regarding the private sector, include works by M. Etgar (2008) and J.S. Chen et al. (2011). M. Etgar (2008) in the proposed descriptive model of consumer co-production process (including, among others, co-production pre-conditions and consumers' motivation to co-produce) draws attention to the efficiency of the co-production strategy (due to the cost-benefit analysis), but does not say anything about its effectiveness. The research by J.S. Chen et al. (2011) suggest that (1) a higher degree of partner matching (the degree to which the business management style and entrepreneurial culture of the partners are similar), (2) partner experience (a combination of knowledge and skills that managers acquire and assimilate to increase their managerial and technical abilities to help partners achieve success), and (3) affective commitment (positive emotional attachment and the degree to which partners are mentally connected), significantly contribute to increasing the effectiveness of co-production practices. Nevertheless, as mentioned above, these studies concern management and co-production in the private sector.

In the context of public sector important insights on the effectiveness of co-production are provided by C. Miller and S. Stirling (2004). These authors emphasize the importance of individual and social capital for effective co-production and argue that users with less individual capital (physical and financial resources, health, skills, knowledge) must be supported in order to participate effectively in the co-creation of the service. C. Needham (2008) and S. Parker and J. Heapy (2006) also provide specific factors determining the effectiveness of co-

production. First, in order to build effective co-production relations, it is necessary, at least at the beginning, to move away from the point of service provision and to create forums where officials and citizens can talk about their experience with services, recognize common ground and negotiate service improvements (Needham, 2008). Secondly, the involvement between users and producers must take place as part of the service process and not in abstract consultation exercises. Engaging people in co-production does not take place through consultations or meetings, but must happen at the time of the service and through conversation and dialogue, not just by accident (Parker & Heapy, 2006). Similarly, K. Sienkiewicz-Małyjurek (2016) notes that: "involvement and structuring will not ensure effective co-production without the ability to cooperate with both public organizations and society" (430). In public organizations, this ability includes core business processes, organizational competences and organizational culture, and on the citizens' side – knowledge, skills and attitudes that enable achieving specific results (Kozuch, 2011).

However, these authors mention factors conditioning the effectiveness of the co-production process "by the way", not making this problem the center of their research, nor verifying them empirically. It is different in the case of studies by T. Bovaird and J. Downe (2008) and T. Brandsen and J. K. Helderma (2012).

The study of T. Brandsen and J.K. Helderma (2012) shows that several of the conditions for designing effective management of common pool resources proposed by E. Ostrom (1990) also apply to co-production. The case study of co-production in housing conducted by these researchers shows that the effectiveness of co-production is influenced by: (1) market structure and related economic dynamics; (2) institutional space; (3) clearly defined boundaries and rules; (4) adaptation of rules to local conditions; (5) enabling the actors involved to participate in decision making; (6) monitoring transparency; (7) social infrastructure for conflict resolving; and (8) unlimited community right to self-organization.

Whereas T. Bovaird and J. Downe (2008), focusing on the practices of government

administration, point out such factors influencing the effectiveness of co-production as: (1) identifying and promoting appropriate mechanisms for public involvement and co-production by the central government; (2) government promotion of examples of co-productions that could be used by local authorities in their area; (3) transformation of old institutions into permanently mobilized deliberative and democratic forms; (4) appreciating the role that users and citizens can play in making decisions; (5) empowering the community and supporting the ability of local officials to understand and respond to social needs; (6) developing new skills of both service users and suppliers; (7) realistic level of social expectations; (8) ensuring equal conditions for all types of organizations competing for the provision of local services; (9) financial aspect.

Notwithstanding, none of the indicated publications address the problem of the role and place of trust among the factors determining the effectiveness of the co-production process of public services, while many authors note that trust is the basis of relationships and a precondition for co-production (Bovaird, 2007; Brown & Osborne, 2013; Czernek 2012; McQuaid, 2010; Poochaoren & Ting, 2015; Panda 2016). Co-production is seen as a special kind of relationship (Joshi & Moore, 2004; Bovaird, 2007; Meijer, 2011; Pestoff, 2012; Roberts et al., 2012). This relationship is the result of cooperation undertaken by the service provider and users. Regardless of the types of co-production distinguished in literature, it is dependent on the presence of trust in the service relationship, because the co-production process can be risky, uncertain, time consuming and expensive for the organization providing public services (Yang, 2006; Osborne & Strokosch, 2013). However, there have been few studies directly addressing the problem of trust in the co-production of public services (Yang, 2006; Pestoff, 2011; Osborne & Strokosch, 2013; Fledderus et al., 2014; Fledderus, 2015).

J. Fledderus (2015) pays special attention to the aspect of trust as a result of co-production. As he notes, it is believed that co-production – the involvement of clients in the provision of public services - strengthens trust. However, research on

this subject is insufficient to prove what is currently only a supposition (Fledderus et al., 2014). The results of his research indicate that trust in the service provider, local authorities and general trust have significantly decreased among the surveyed co-production participants. Hence, J. Fledderus concludes that not the mere the public service co-production is important for the increase of trust, but the way in which co-production is organized and managed (Fledderus 2015). However, J. Fledderus's research is one of the few in this area and raises the only one side of the problem - trust as a result, not referring to trust as a condition for the launch and effectiveness of co-production. Hence in this article an answer to the question about the place of trust among factors conditioning the effectiveness of public service co-production was sought.

Research methodology and findings

In order to identify the factors influence the effectiveness of the co-production process in public sector and the role of trust among them, the systematic literature review and the word cloud technique have been applied. The systematic literature review is based on establishing facts as a result of secondary data analysis. As a research strategy, it allows to, among others: (1) maintain the objectivity of the analysis, (2) cover the entire research area, (3) properly select sources for further research and (4) consolidate information from many sources (Colicchia & Strozzi, 2012; Sienkiewicz-Malyjurek, 2016). The word cloud technique allows to visualize the word frequency in a given text. The frequency of words appears reflects their size in the cloud. The use of this technique makes it possible to illustrate the most important components of the texts analyzed, and its quantitative nature deprives it of the disadvantages of interpretive studies (Tranfield et al., 2003; Klimas & Czakon, 2010). In the research the software available on the website <http://www.wordle.net> was used (Steele & Iliinsky, 2010).

The strategy for the systematic literature review – conducted in July 2019 – involved several steps (Table 1). An electronic search was carried out in the Ebsco, Scie Direct, Emerald Insight, ProQuest, Scopus and Web of Science databases.

Table 1

The systematic literature review strategy

Stage	Selection criteria	Number of records					
		Ebsco	Science Direct	Emerald	Pro Quest	Scopus	Web of Science
1	co-production in title OR abstract OR key words	9 287	1 754	2 401	3 777	6 771	6 645
2	co-production of services in title OR abstract OR key words	561	115	2 197	564	1 170	1 036
3	co-production AND public services OR co-production AND social services in title OR abstract OR key words	70	32	169	80	240	193
4	papers written in English and published in peer-reviewed journals	61	26	60	57	103	149
5	the subject areas of management science and operations, public management and administration, public and social policy	55	11	27	57	100	115
6	elimination of duplicate publications	187					
7	verification of abstracts due to co-production as a leading subject of research	134					

First, publications including the word “co-production” in title or abstract or key words were sought (Stage 1). Then the results were limited to “co-production of services” (Stage 2) and next to the words “co-production” and “public services” or «co-production” and “social services” in title or abstract or key words (Stage 3). The formulations “co-production of public services” and “co-production social services” were not applied because they are rarely used even in the most important co-production publications. Afterwards the search was restricted to the papers that were written in English, published in peer-reviewed journals (Stage 4), and in the subject areas of management science and operations, public management and administration, public and social policy (Stage 5). In this way a total of 365 articles was identified. The duplicate publications have been eliminated from the sample, which reduced the number of articles to 187 (Stage 6). The last step was verification of abstracts due to

co-production as a leading subject of research (Stage 7). This process reduced the sample to 134 articles form 1998 to 2019 (actually the period of renewed, increased interest in co-production) that have been further analyzed.

The selected articles were analyzed in terms of the occurrence of factors conditioning the effectiveness of the co-production process proposed by the author. Analysis of selected articles led to the observation that as often as the term “effective” as the term “success” is used, hence the analysis has been expanded to these two concepts (which is in line with the definition of effectiveness presented above). The result of this analysis was distinction of 45 papers and 83 factors transcribed by bringing them to key words. The number of factors decreased to 30 after removal of those that appeared only once.

The factors that influence the effectiveness of the co-production of public services process are

(in alphabetical order): active professionals and users engagement, building relational capital among the stakeholders, capability of professionals and users to co-produce, clear communication of the values by the organization, finding a balance between private value and public valued, internal efficacy, involvement of third sector organizations, organizational culture and support, participation of the citizens, reciprocity, relationships between users and professionals, sense of shared responsibility for the provision of a new service, social capital, structure of political institutions, structure of

political institutions, suitable ways to motivate the users, trust, type of the service, understanding and responding to the users' needs, users' motivation to co-produce, willingness of professionals and users to make the contribution.

Afterwards those identified factors was quantitatively analyzed using the word cloud technique (Fig. 1). As a result 6 factors were identified as the most important for the effectiveness of the service co-production process due to the the frequency of appearance (Table 2). Four of these key factors are on the side of users, one on the side of professionals and one is common.

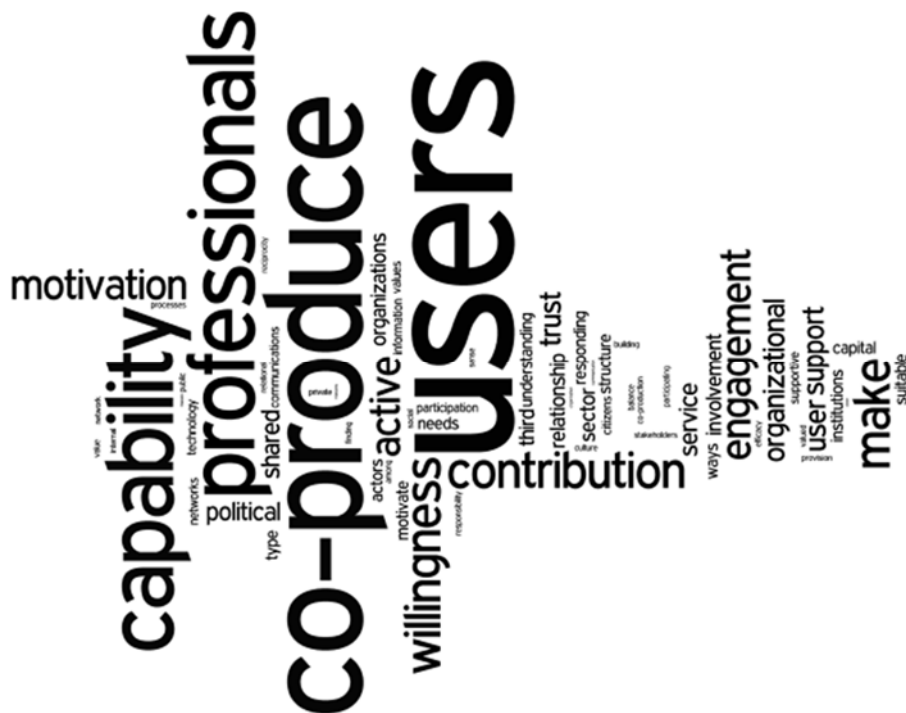


Fig. 1. Factors influencing the effectiveness of the co-production process

Source: developed using wordle.net.

Table 2

The key factors of the effectiveness of public services co-production process

Side	Factors	Description
1	2	3
Users	Capability of the users to co-produce	users' skills, education and experience, competencies, resources, knowledge about their role in the co-production and having something valuable to contribute
Professionals	Capability of the professionals to co-produce	professionals' skills, education and experience, competencies, substantial/adequate resources and having something valuable to contribute

1	2	3
Users	Willingness of the users to make the contribution	the likeliness to consider active engagement and weigh up the investments of resources (time, money, efforts, experience etc.);
Users	Users' motivation to co-produce	people are benefit maximizers who will only co-produce when benefits (material, extrinsic reward or intrinsic values) outweigh costs
Users	Active user engagement	users are not only passive recipients of public services, but their commitment is necessary in the interactive relationship between them and service professionals in the co-production process
Both	Trust	mutual relationships in which both parties are interdependent and take risks

The analysis indicates that the capability of the users to co-produce is the most important factor of the effectiveness of co-production (appeared 12 times). The capability of the professionals to co-produce is a similarly important factor which appeared 10 times in the analyzed records. The capability to co-produce means skills (Loeffler & Bovaird, 2016; Matei, 2016; Paskaleva & Cooper, 2018; Wiewiora et al., 2015; Verschuere et al., 2012), having something valuable to contribute (Loeffler & Bovaird, 2016; Sicilia et al., 2016), education and experience (Cepiku & Giordano, 2014) as well as competencies (Sicilia et al., 2016) of both citizens and service professionals engage in co-production. It is also include citizens' resources (Gao 2017; Sicilia et al. 2019) and knowledge about their role in the co-production (Lino et al., 2019; Loeffler & Bovaird, 2016; Matei, 2016; Sicilia et al., 2019). The substantial/adequate resources also affect professionals' ability to co-produce (Cepiku & Giordano, 2014; Fledderus 2015). As Sicilia et al. (2019) pointed out, public managers can increase users' capability and "help them be more effective in the co-production process by providing them with relevant information and basic resources" (p. 8). Equally, however, professionals need to be supported by the organization by providing them, among others, adequate autonomy and substantial resources (Palumbo, 2006).

The third factor because of the frequency of appear is willingness of the users to make the contribution (appeared 10 times). Both professionals and users must be willing to invest their resources (time, money, efforts, experience etc.) in the co-

production (Verschuere et al., 2012) but analysis indicates that willingness is more important on the citizens' side (Alford, 2016; Bovaird & Loeffler, 2016; Farooqi, 2015; Fledderus et al., 2015; Fleming & Osborne, 2019; Lino et al., 2019; Palumbo, 2016; Van Eijk, 2014; Van Eijk et al., 2017). The willingness of the users to contribute depends on motivation (Alford, 2016), relevance of the topic – "only when citizens argue a topic 'salient enough' they will have a willingness to consider active engagement and weigh up the investments of efforts" (Van Eijk, 2014, p. 361), compliance of user values with the values of members of a public organization (Fledderus et al., 2015) and trust in government (Van Eijk, 2014; Van Eijk et al., 2017). The relationship between people's willingness to co-produce and individual characteristics (age, gender, socio-economic status, social connectedness of people etc.) is not clear (Van Eijk et al., 2017). Furthermore, as T. Bovaird and E. Loeffler (2016, p. 268) pointed out, "co-production demands more than willingness, but also relevant knowledge about the co-production task" confirming the significance of the first identified factor and indicates that those factors are interdependent.

Next factor is the users' motivation to co-produce (appeared 8 times). The motivation of the users is considered critical for the effectiveness and sustainability of co-production initiatives (Boccacin, 2017; Farooqi, 2015; Fledderus, 2015; Gao, 2017; Lember et al., 2019; Lino et al., 2019; Van Eijk and Steen, 2014; Verschuere et al., 2012). Similar to willingness, "individual motivations are necessary, but not sufficient, for the success of co-

production” (Lino et al., 2019, p. 287) and users may need sufficient information about their role in the co-production arrangements (Lino et al., 2019) and some skills in addition to their motivation to co-produce (Verschuere et al., 2012). Moreover, related to the aspect of motivation is trust. Fledderus (2015) argued that “more users have trust in the service provider and/or government, the more likely they will cooperate” (p. 554).

The active user engagement is fifth factor with 7 appearances. The determining cause of success of co-production lies not only on the service provider but the people as well. As a result, the role of users once put as only receivers to public services is now seen as the main factor leading to co-production success (Dhirathiti, 2018; Farooqi, 2015; Fledderus, 2015; Lino et al., 2019; Phillips & Morgan, 2014; Poocharoen & Ting, 2015; Thijssen & van Dooren, 2016). The active engagement of users is required for co-production success because «co-production establishes an interactive relationship between citizens and public service providers (Thijssen & van Dooren, 2016, p. 88). To encompass the active engagement of citizens, co-production values have to be present and constantly reinforced (Lino et al., 2019).

Last but one is trust (appeared 7 times) and there is no distinction between users and professionals. Mutual trust is the currency that turns co-production relationships into a success (Boccacin, 2017; Bovaird, 2007; Ewert & Evers, 2014; Fledderus, 2015; Fledderus et al., 2015; Granier & Kudo, 2016; Van Eijk & Steen, 2016; Verschuere, et al. 2012). Trust becomes an important factor because cooperation is the precondition for successful co-production (Fledderus et al., 2015). Bovaird (2007) argued that «co-production means that service users and professionals must develop mutual relationships in which both parties take risks – the service user has to trust professional advice and support, but the professional has to be prepared to trust the decisions and behaviors of service users and the communities in which they live rather than dictate them” (856). Moreover “trust can not only be treated as a dependent variable, but also as an independent variable” (Fledderus, 2015, 554). The more users have trust in the professionals, the more likely they will cooperate but on the other hand trust is higher

among co-producers than those who do not co-produce (Fledderus, 2015). Consideration about the role of trust in co-production process are still dominated by the work of J. Fledderus and his co-researches. Few other authors take a closer look at this issue, although they recognize the importance of trust in ensuring the effectiveness of the co-production process. Presence of trust has a positive effect on users’ motivation to co-produce (Fledderus, 2015) and their willingness to contribute in the co-production process (Van Eijk, 2014; Van Eijk et al., 2017). Nevertheless, these conditions, right behind the capability of users and professionals to co-produce, are considered as more important for effectiveness of co-production process than trust.

Conclusions

Despite increased attention, understanding of co-production is limited and we still have a lot to learn about how and why coproduction works (and does not). Therefore there is a need to improve knowledge and ability to use co-production successfully (Parrado et al., 2013; Sicilia et al., 2019). Additionally, according to J. Fledderus and M. Honingh, 2016, it is very difficult to design accessible and successful co-produced services. Already in the 1980s, shortly after the concept of co-production appeared, «recognizing the difficulty of constituting effective institutions to address the challenges associated with coordinating coproduction” L. L. Kiser (1984) came to the «disturbing conclusion that co-production is not likely to be a popular activity” (p. 506). Despite this prognosis, co-production has continued to be a significant aspect of public service provision and management, demanding attention to the specific factors that favor or constrain it in practice (Musso et al., 2018). After several decades of actual lack of much interest in the participatory role of citizens in public (and social) service production, the renewed interest in the public service co-production took place at the beginning of the 21st century when theoretical considerations and interests of practitioners in the public sector have been dominated by governance model. Therefore, this period was selected for analysis. As a result of a systematic literature review 134 articles published between 1998 and 2019 were identified. These are articles only from the areas of (1) management science and operations, (2) public

management and administration and (3) public and social policy, in which the main research problem is the co-production of public or social services.

The selected articles were analyzed in terms of the occurrence of the factors of the effectiveness which provided answers to the first research questions - what factors influence the effectiveness of the co-production of public services process? One of the identified factors was trust. Then those factors was quantitatively analyzed using the word cloud technique which resulted in the identification of six key factors for the effectiveness of co-production: (1) the capability of the users to co-produce, (2) the capability of the professionals to co-produce, (3) willingness of the users to make the contribution, (4) users' motivation to co-produce, (5) active user engagement, and (6) trust. This analysis allowed placing trust among the conditions of the effectiveness of co-production process and addressing second research question. Trust, if present, is one of the factors that positively affects effectiveness of public service co-production process. In this respect, co-production is like cooperation, and trust favors and strengthens it, and also affects its course and effects because his presence facilitates social interaction and provides the basis for risk taking. It is the sixth of the identified factors due to the frequency of appearance, but affects other important factors - users' motivation to co-produce and their willingness to co-produce.

The identified factors require empirical testing in specific contexts because, as T. Bovaird, E. Loffler and S. Parrado-Diez (2002, 414) argue, "in each country, the approach which is most likely to be effective in activating civil society will depend on its existing characteristics [...] and the specific economic, social and political circumstances of that country". The type of service and type of organization providing it are equally important and should be included in the analysis. Only then will we be able to say that we know what factors influence the effectiveness of co-production and how we can shape them, but this knowledge will only apply to a very narrow fragment of reality.

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